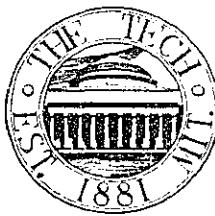


The Tech



NEWSPAPER OF THE UNDERGRADUATES OF THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY

CAMBRIDGE, MASSACHUSETTS, TUESDAY, JANUARY 12, 1960

5 Cents

VOL. LXXIX No. 49

Class Officers and UAP

March 1 Announced Election Date

Tuesday, March 1, has been announced as the date for the upcoming UAP election by Jerry Staack, '61, chairman of the Secretariat Elections Committee. Staack stated that class officer elections will also be held on this date.

In previous years the UAP election preceded the class officer elections by a week. Three reasons were given for the change. It is hoped that more people would vote if there is only one election, and the postponing of the UAP election for one week will give the candidates more time to campaign. Also, Monday, February 22, is a holiday and might influence poll attendance the following day. Staack expressed the hope that this change would bring about increased election activity.

Nomination Petitions Available

Nomination petitions for all offices must be in the Secretariat office by 5 P.M. Friday, February 19. Petitions must contain the names of ten percent of the eligible voters, which will amount to about 95 for each class officer candidate and 380 for UAP candidates. Staack suggested that the petitions carry a few extra names, as they will be spot checked. Petitions for those interested in running are available at the Secretariat office in Walker.

Students will vote for candidates in order of preference. If no candidate has a majority of votes, the candidate with the least number of votes will be eliminated and his votes will be given to those whose names appear as second choices on his ballots. This procedure is followed until one candidate has a majority.

Seniors Elect Permanent Leaders

Seniors will be voting for their permanent class officers and executive council. Voting is done by the preferential method, but the ballot counting for the executive committee will be done by the point count system. A first choice vote will be worth a number of points equal to the number of candidates, a second choice one less, and so forth. The highest point total will determine the winner.

Committee Sets Senior Prom Date Staack Is Junior Representative

Prom Date Set

Senior Week Committee has set the date for the Senior Prom as June 8, at the Sheraton Plaza. The committee has made no announcement of the band.

The annual stag banquet will be held the Friday night of finals. The Senior Week Committee has urged that all Seniors attend Club 60 meetings for the remainder of the term. Watch for announcements of the meetings in The Tech.

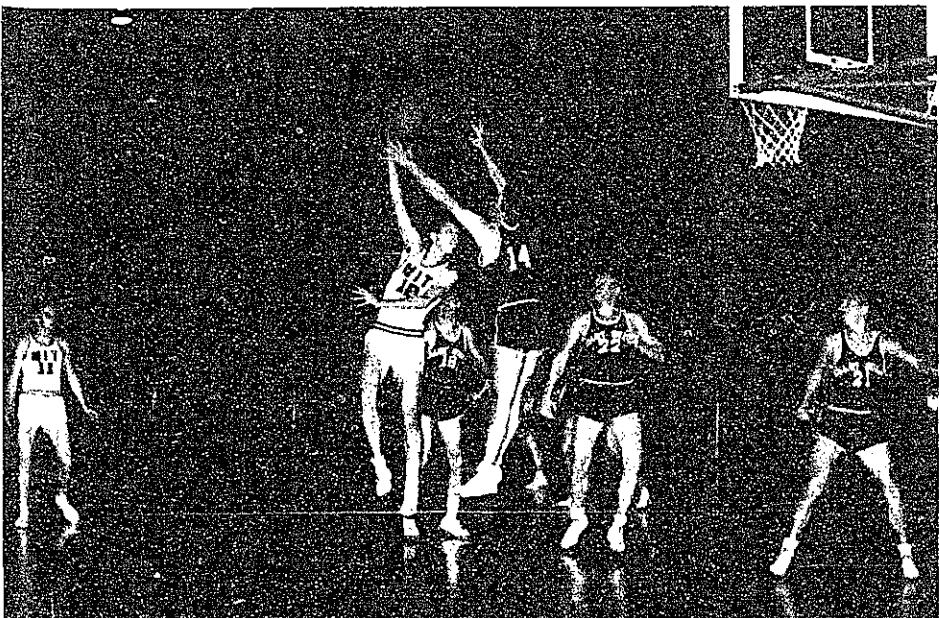
First U.S. Showing of Yugoslavian Art; Sixteen Artists Represented in Exhibit

An exhibit of contemporary Yugoslavian paintings opened Monday, January 11, at the MIT New Gallery for the first showing of its United States tour. Sixteen artists are represented in the exhibit, which is circulating under the auspices of the American Federation of Arts as part of its cultural exchange program.

The works are predominately non-objective in form, the acknowledged present trend in Yugoslavian art. Those artists represented include Janez Bernik, Jovan Bijelic, Stojan Celic, Albert Kinert, Milan Konjovic, Stane Kregar, Ferdinand Kulmer, Edo Murtic, Sime Peric, Zoran Petrovic, Gabrijel Stupica, Franco Simunovic and Josip Vanista.

The exhibit, which is open to the public without charge, will continue through February 1.

Quintet Stopped by Coast Guard



MIT forward Tom Burns, '62, tosses up a hook shot over the outstretched arms of Coast Guard Academy's Anderson in last Saturday evening's game at Rockwell Cage which was won by the visitors 84-65.

While this was going on in the Cage, the varsity hockey team sent the crowd at the Briggs Field Rink away happy as they defeated Wesleyan 2-1. See pages 5 and 6 for details of both contests.

Mendes-France Captivates 1400 Cites Policies for West

Kresge Auditorium was too small to accommodate the throng of listeners who came to hear Pierre Mendes-France, former premier of France, lecture on "The Great Economic and Political Problems on the Eve of the Summit". About 1,000 people were sent home while 1,400 others packed into Kresge to hear the famous statesman demand that the West increase its rate of economic growth and stimulate under-developed countries instead of engaging in an arms race if it is to successfully combat the Soviet challenge.

Speaking in broken but positive English, the short French politician said that the conflict of ideologies could not be resolved by war because both blocs can annihilate each other and know that they can.

Russia Surpasses France

Mendes-France argued that if the rate of economic growth of two countries is different, the one with the higher rate will win the economic challenge. He stressed the importance of the rate by pointing out that Russia will not surpass France in economic growth if France increases her rate of growth by two percent. With her present rate

of growth, Russia will surpass France in 1975 by fifty percent.

Mendes-France stated that the West can increase its rate of economic growth by "avoiding recessions"; He said that the West must limit recessions because while its factories and workers are idle, the Russians move ahead.

Even the forced and semi-forced labor in the Soviet Union are "on the march". The U. S., said Mendes-France, lost over fifty billion dollars in goods not produced in the 1957 recession; by developing international trade, stabilizing the currency, and removing trade tariffs, the U. S. and the rest of the West can limit recessions. He said, "Nothing can remain idle and unused . . . because in the USSR everyone is mobilized".

He stated that the West must create maximum expansion without inflation. "This is feasible only if the public, the politicians, and labor know exactly the problems involved in increasing the rate of economic growth." Mendes-France agreed that the United States has been taking the right steps to limit recessions with such policies as collective bargaining, support of farm-product prices, and graduated income taxes.

West Champion of Have-not Countries

With regard to underdeveloped countries Mendes-France stated that the West is in a better position to rehabilitate underdeveloped countries and thus gain their support. It is able to assume this position because it not only has more physical and material resources than Russia but it also represents freedom — a concept attractive to any people.

He stated that before rehabilitation can be attempted the West must provide a stable market for products in order to demonstrate its economic efficiency. Mendes-France recommended stockpiling to stabilize inflation, expand marginal production, and mitigate price fluctuation. By means of stockpiling the most advanced countries will be able to supply supplementary resources to the less advanced countries.

Mr. Mendes-France proposed that the West must make inroads into its standard of living and increase production so that it can help the lagging countries. By means of this Robin-Hood policy, the rich countries and the poor countries will both ultimately become richer since the average rate of economic growth will be increased. He recommended that countries of the West "earmark certain percentages of their income" for the underdeveloped countries and that either a bilateral or international agency examine the accounts of the aided countries which would be compiled and publicly published each year. In this way he said that more countries would be induced to participate since the system forces out all political pressures.

Answers Techmen's Questions

After his lecture Mr. Mendes-France accepted questions from the floor and answered them in a final speech. Mr. Mendes-France answered the questions in a graceful and adequate manner, and concluded his lecture by saying, "It is the duty of all thinking men to enlighten their contemporaries".

Transcripts of Records

Transcripts will not be prepared after January 29 until beginning the first week in March for first, second, and third year students, and the second week in February for others. Orders should be placed now, since a limited number of transcripts may be promised for any one day.

Grade Reports

- First term grade reports will be mailed to the term address on Thursday evening, February 4.
- The report may be sent to the student at a different address if he calls at the registrar's office no later than January 29.
- Duplicate reports will be sent to the parents of first year students.

Snow Adds Another Misery



The first snow of the year for most of the Tech students blanketed the MIT campus Saturday night. Shown above is a view from the window of a West Campus undergraduate.

Tangent Goes on Sale Today;

Student-written Literature Contents

Tangent, a magazine of literature written by MIT Students, goes on sale today.

Tangent is directed by the same leadership which for the past two years published yearly Arabesque.

The new name for what is substantially a bigger Arabesque comes with financial independence. Tangent is to eventually support itself, unlike Arabesque which was subsidized by T.E.N., or the old Tangent of five years ago which was dependent on The Tech. Tangent was set on its feet financially by a \$400 grant from FinBoard last fall. At the same time it was granted provisional Class B activity status. With its financial independence Tangent hopes to publish one or two more issues this year.

Succeeds Arabesque

Arabesque was started two years ago by three members of the class of '60: Sid Altman, Peter Yamin, and John Gintell. The first issue was all of sixteen pages. Arabesque's descendant, Tangent, has sixty pages for po-

VooDoo is Published In Spite of Rumor

Contrary to a popular rumor perpetrated by the VooDoo sales staff, VooDoo has not been confiscated by the Dean's office. It will supposedly hit the campus today in the form of a parody on The New Yorker magazine.

Christopher Sprague, Editor of VooDoo, said that the reason the magazine has been absent for so long is that the printer had a fire over Christmas vacation. He said VooDoo did not come out before Christmas because, "We decided not to".

etry, plays, essays, and stories. The founders of Arabesque, Messrs. Altman, Yamin, and Gintell compiled Tangent with the aid of Richard Duttner, '60, Herb Odom, '61, and Sherman Rosen, '62.

Tangent sponsored the colloquium "A Moratorium on Technology", in December, Tangent, pleased with the response, plans to sponsor another colloquium; this one would be on the education of scientists and non-scientists in the sixties.

Tangent Needs Staff

Tangent's main worry at present is getting a staff. Tangent's chairman, Mr. Altman, emphasized the importance of getting staff members in the editorial, advertising, and pub-

(Continued on page 3)

APO Distributing 1960 Career Guide

Career: for the College Man, 1960 edition, is being distributed by APO on Monday, Tuesday, and Wednesday, January 11, 12, and 13 in the lobby of Building 10. American industries have helped to write this annual guide to business opportunities and have paid for its distribution on over 600 college campuses.

Secretary of Labor James Mitchell wrote the introduction, which contains his personal assessment of the graduates' prospects for 1960. Career features complete cross indexes of every company — broken down by locations, college major background preferred by companies, corporate summer work opportunities, and most immediately, by recruiting schedules on each campus.

The Missing Link

That MIT is due for a change is now quite clear. The Ford Foundation grant has provided the means for the development of a new concept of the engineering education in this country; a development in which this school will lead the way. From various talks on his topic, it seems as if planning, though still in the initial stages, is well on its way. Nothing more specific than the proposals which appeared in the original releases of the grant news has yet appeared, but in a change of this magnitude, time is essential for the careful consideration which the problems entailed merit.

What we can expect is a strong emphasis on basic disciplines, and a lumping together of the course material as scientific advance makes the boundaries between different studies fuse together. But there is one concept which MIT has been its leader in furthering for many years. That concept is the place of the liberal studies, the humanities, in the technological program.

There are too many technical schools across the continent which offer to the prospective engineer or scientist little or no cultural and liberal arts courses. Here, however, every undergraduate is required to take at least fifteen percent of his time in this phase of education. This is certainly not enough to make any MIT graduate as adept at cultural conversation as a B.A. from other schools, but it is at least an introduction to the problems which have been before man since the beginning of human development.

In a world in which technology is becoming overwhelmingly important, it is reasonable to assume that much of the future leadership will spring from people who have a firm grasp of the science and technology: individuals who have received their education in technical universities. But the decisions which will have to be made will not always, if ever, be dependent solely upon quantitative and abstract scientific methodology. There will be much else involved which will require men of not only technical competence but also men with firm personal convictions, unwavering integrity, and a fundamental faith in some individual philosophy.

The latter requisites will not be developed in the scientific disciplines, and it is doubtful whether they can be instilled by any type of formal pedagogy. But it is essential that an awareness to the type of thought which produces them be offered by an educational institution as much in tune with the times as is MIT.

The current humanities program here, though it is better than most, leaves much to be desired. It tends to become scientific disciplines, and it is doubtful whether they can be instilled by any type of formal pedagogy. But it is essential that an awareness to the type of thought which produces them be offered by an educational institution as much in tune with the times as is MIT.

Another dangerous tendency on the part of many people around the institute is the equating of the social sciences with the humanities. There is no doubt that psychology and sociology are becoming increasingly important; they cross the boundary between the study of man and the technical studies and are actually applications of the scientific method to human problems. But to speak of the importance of the humanities in one sentence and to say that psychology and sociology are adequate in the next is to commit a grave error. True, these courses are part of the humanities, but they are not anywhere near all of it. The study of man's progress, in history, and of man's analysis of metaphysical problems, in philosophy, must be introduced to the student if his education in the "humanities" is to be even adequate. It is also important for MIT that the liberal studies be tied in with the technical studies in such a way that the relationships between the two areas of endeavor becomes clearer. Perhaps a history of science courses taught along with, or as part of, basic physics would enlighten the student in his first year as to the intimate ties between scientific and philosophical thought.

The changing MIT must include an improving integration of the humanities into the broad scholastic program; otherwise an extremely important part of the engineering education will be neglected. The man of science may well be the most important individual in the world of a not-too-distant future, but the decisions he will make — and which may play a significant role in world development — will not be ones which can be made on the grounds of technology alone.

Politics(?) Are Coming

With the announcement of the date of the UAP and class officer elections, the MIT political season begins again. As might be expected, the choice of the election date was influenced primarily by the problems of attracting people to the polls. This problem is a perennial one, caused by the apparently inherent apathy of the Tech student and the lack of issues in the elections. It is understandable that there are no great issues in the elections for class officers, who are elected primarily on personality and past performance, but the extension of this attitude to the UAP candidacy is an indication of the failure of the mission of the Undergraduate Association.

We hope that this year the most able and responsible members of the class of 1961 will be inspired to announce their candidacy, and to announce early, since there has been a regrettable tendency for candidates to decide to run at the last possible moment, being persuaded into action by their friends. This back-room caucusing, familiar to national presidential elections, by the leaders of the various living groups, leads to the selection of a candidate who is unfortunately identified with that living group. This may enhance the position of that group, if their candidate is elected, but it is not the best way to choose a UAP who supposedly represents the entire undergraduate body.

The actions last year of nominating a non-human candidate suggests a feeling of dissatisfaction among many of the students with the caliber of UAP candidates. If as much enthusiasm could be generated this year for a qualified nominee as was aroused for a cat, the coming elections could be much more exciting and valuable.

It has been suggested that there are no platforms in the elections because there are no issues, but this indicates a mere paucity of thought. The issues exist, but it remains for the candidates to find them and create an interesting and significant election.

Letters

A Mechanical Solution to a Human Problem

TO THE EDITOR:

Resolved that it be recommended to the Telephone Company to install additional phones in girls dormitories at no cost to the girls. The increased revenue in completed calls and the savings on wear and tear to telephone dials would more than repay the Telephone Company for their troubles.

A dateless Tech student
Daniel Brand, '58



IT HAPPENED JUST
AFTER FINALS ONE YEAR...
EVERYBODY FLUNKED

The Tech

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See your

"The Man Who Saw God" is Steve Allen's favorite joke. He read it in the *Realist*, a unique magazine of freethought criticism and satire. Serious articles on interfaith marriage; the psychology of myth; anti-contraceptive laws; the semantics of God; a poem that caused a campus controversy. Satirical critiques of professional beatniks; H-bomb tests; the FBI; telethons; the AMA. Columns on church-state conflicts; censorship trends. The 3 issues described cost \$1. They're yours free with a subscription. Rates: \$3 for 10 issues; \$5 for 20 issues.

The *Realist*, Dept. C 225 Lafayette St. New York 12, N. Y.

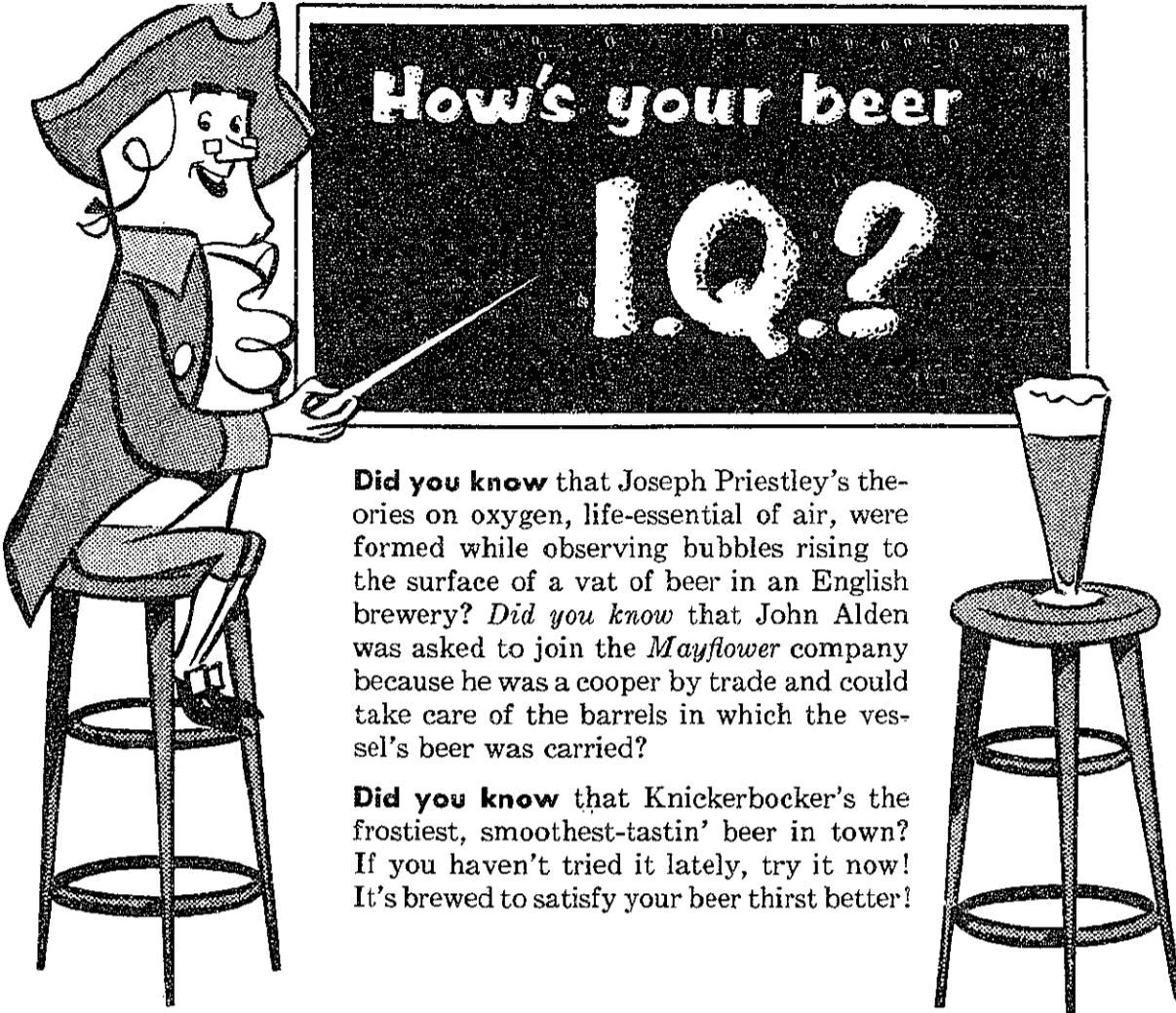
Tech Show 1960 Opens Late February

"Leave it to Eve", the 1960 edition of the Tech Show, will be held on February 25, 26, 27 and March 4 and 5. One hundred people from MIT, Simmons, and BU are participating in preparing the show for the opening date. Gus Solomon, Jr., '59, has the male lead, and Judith Adams, BU senior, and Norma Humphries, Secretary in the Tech Engineering Review Office have the two female leads.

The show was written by Tom Doherty, '56, and has been termed a "modern fantasy" by Publicity Director for the show, Bruce Silberg, '59.

Doherty has been in Tech Shows for eight years, and Solomon for five. The Show itself is in its fifty-fourth year of production. This year the general manager is Harold Holzer, '59, publicity director — Bruce Silberg, '59, director — Tom Doherty, '56, Choreographer — Gus Solomon, Jr., '59, Musicographer — Dave Hiller, '63, and set-designer — Bill Markunas, '59.

According to General Manager Holzer, the show is es-



Did you know that Joseph Priestley's theories on oxygen, life-essential of air, were formed while observing bubbles rising to the surface of a vat of beer in an English brewery? Did you know that John Alden was asked to join the *Mayflower* company because he was a cooper by trade and could take care of the barrels in which the vessel's beer was carried?

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Dancers rehearse for Tech Show 1960, opening late in February.

sentially complete except for certain acts which are being rewritten, and the sets which are not completely built. Beginning on January 31 the cast will rehearse every day until the opening day.

TANGENT

(Continued from page 1)

licity departments. He pointed out that as a new undertaking, one which he hopes will expand, there is plenty of room in responsible positions. Mr. Altman said anyone interested should contact him at Baker House, or Herb Odom at Phi Beta Epsilon.

History of Failures

The literary magazine at MIT has a history of multiple abortive births for as far back as can be remembered. *Voo Doo* occasionally prints serious literary efforts, *TEN* supported *Arabesque*, and *The Tech* supported the old *Tangent*, but no literary MIT magazine achieved the stability and success of the humor, technical, or news publication.

Sales Comparatively Small

The *Arabesque* sold about 550 copies each of its two years of existence. For comparison, *The Tech* usually prints 2200 copies for each of its bi-weekly issues. *Voo Doo* has a monthly press run of 4400.

Nevertheless, many feel the time is ripe for a literary magazine. Some observers comment that each year the student body is getting more sensitive to the liberal arts. More and more MIT students appear at cultural events around Boston. There are plans in Senior House to print a house magazine of literary content. Many feel that *Tangent* will become a permanent member of the MIT publications.

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The Robe, by Douglas Was 5.00 Now 1.75

Records, Mercury Stereo Value 4.49 Now 2.98

Westminster Monaural list 4.98 now 2.98.
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Cavaliers Defeat Trinity Easily; Triumph Without Four Starters

Although hampered by the absence of four regular starters, the varsity fencers came back strong to triumph over Trinity, 16-11, in a match held at Trinity last Saturday afternoon. The victory featured a crushing 7-2 decision for our epee team after the foil team, minus captain Sherman Karp, '60, and letterman Jerry Yarbrough, '60, had been defeated 6-3. The sabermen, although missing first-stringers Joe Verderber, '60 and Don Dilworth, '61, closed out the meet with a 6-3 triumph.

Chuck Haspel, '60, led the cavaliers in the epee by taking three out of three encounters. A sophomore, Stu Nelson, was victorious in his only bout and was lauded by Coach Vitale for his excellent form. The Maestro considers Nelson to be one of the bright prospects for coming years.

The only encouraging sign in the foil team's defeat was the showing of another sophomore, Steve Woo. He captured two out of three encounters.

Francisco Cuervo, '60, sparked the sabermen by crushing his opponent, 5-0, 5-2, 5-3. Again a sophomore showed great promise, as Al Regier triumphed in two out of three bouts.

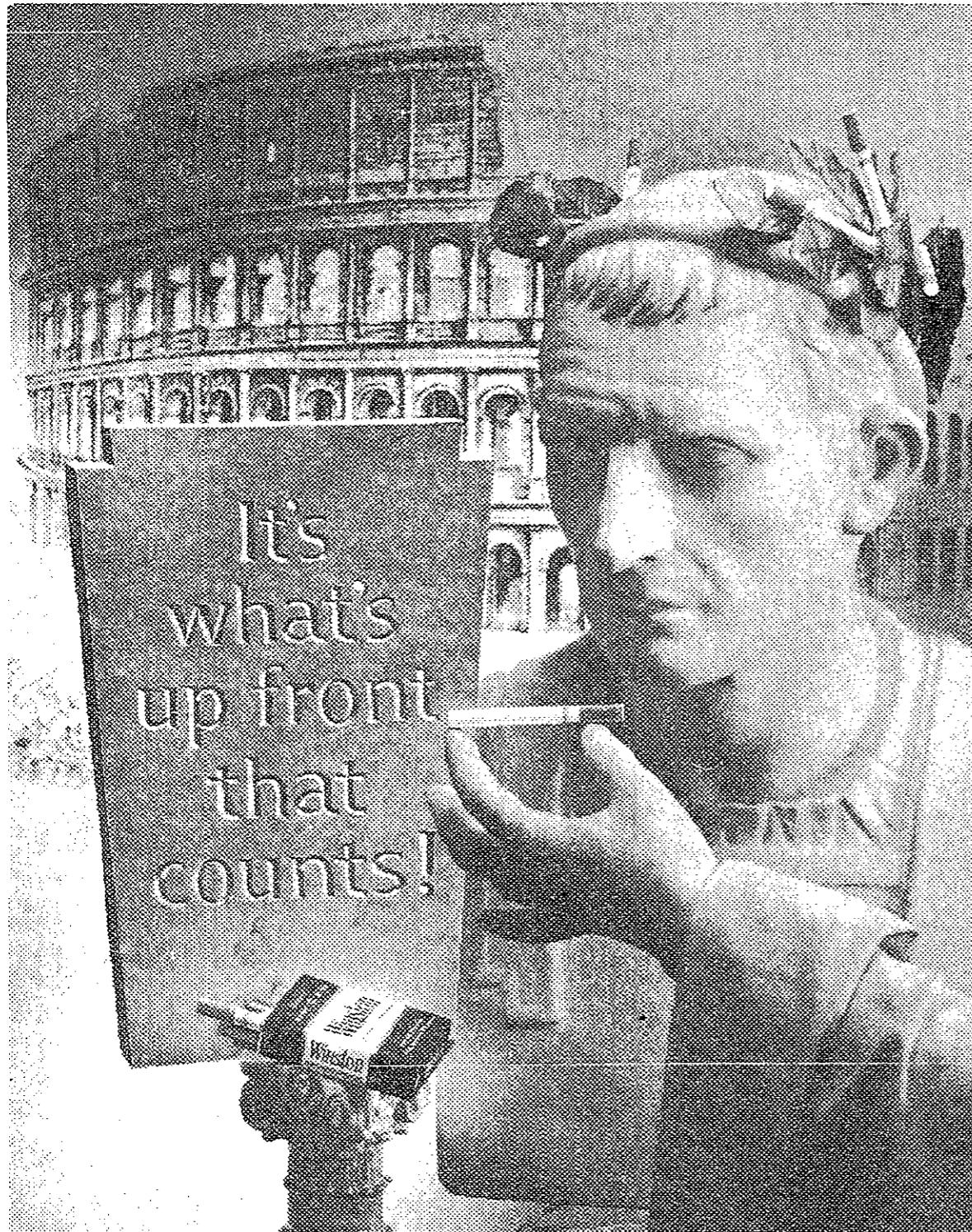
The varsity's next meet is at home with Brandeis this Saturday. Brandeis, a new addition to the schedule this year, should field a strong team, but the Beaver squad appears to have hit full stride, and, at full strength, will give their visitors quite a battle.

Freshmen Organize

Tomorrow night the freshmen play host to the Harvard frosh in their first match of the season. Robert Levis has been appointed Captain. Bob, who will lead the foil duelists into action, comes from quite an illustrious background. His father holds the distinction of being 6-time National Champion and second in the world in 1932, the highest rank an American has ever attained.

The foil team will be completed by Howie Taylor, who holds several Illinois' championships, and Barry Rosoff, another experienced fencer.

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"Weni, widi, Winston!" Thus did Caesar (a notoriously poor speller) hail the discovery of Filter-Blend—light, mild tobaccos specially selected and specially processed for filter smoking.

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That's why Caesar would never accept another brand even when it was offered gratis. In fact, history

tells us he'd glower at the extended pack and sneer, "Et tu, Brute?"

In a stirring peroration to his legions, Caesar put it this way: "For the Numeral I filter cigarette—for the best-tasting filter cigarette—for the noblest filter cigarette of all—smoke Winston!"

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P.S. to bachelors. If you're lucky enough to find a gal who'll keep you in Winstons, Caesar!

R.J. REYNOLDS TOBACCO CO., WINSTON-SALEM, N.C.

Cagers Beaten by Springfield, USCGS

Misfortune hit the varsity basketball team hard last week when high scoring center Dave Koch, '62, was injured at the five minute mark of the second half of the Springfield game last Thursday evening at Springfield. Koch had already netted 23 points and was the Beavers'

top rebounder, but his loss was felt as the Teachers turned a tight game into a 71-60 win in the closing minutes. Koch was the top point getter for the Engineers, and Hugh Morrow was second with 15.

Saturday evening at Rockwell cage, the MIT hoopsters stayed close to the Coast Guard Academy five for the first fifteen minutes of the opening half, but the taller visitors spurted ahead and went on to win 84-65.

With Dave Koch out, much more pressure was put on Tom Burns, '62. Burns, 6 feet 3 inches, played his best game of the season both offensively and defensively, and tied for high scoring honors in the game with Hugh Morrow as both hooped 18 points.

Beavers Hold Early Lead

For the first few minutes of the contest, neither squad was able to pull ahead by more than a field goal. At 7:36, Morrow hit on a jump shot to put MIT in the lead 11-10, but the men from New London struck for three quick baskets to change the complexion of the game.

With about six minutes remaining before intermission, Howie Ziehm, '62, tossed in a pair of shots from the floor to bring the Techmen to within four points, 28-24. The Coast Guardsmen then ran off twelve consecutive points to build up a lead they never relinquished. At halftime, the Beavers trailed 48-32.

At various points in the second half, the Techmen narrowed the gap to 66-55 and 72-60, however, the visitors turned on the steam near the end to make the final tally 84-65.

MIT 65 — USCGA 84		
MIT Scoring		
FG	FT	Total
Morrow	7	4
Gamble	5	2
Burns	4	10
Ziehm	5	1
Halleck	1	0
Gaston	0	0
B. Koch	0	2

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Hockeymen Dump Wesleyan, 2-1; Success Follows Loss to Bowdoin

it rusty from their Christmas layoff, the varsity hockey was snowed under by a fast, sharp-passing delegation Bowdoin, 13-1, last Friday evening at the Briggs Field Rink, but came back strongly the following evening on the same ice to beat them, 2-1.

MIT victory could have easily by a much wider margin had shots that narrowly missed Cardinals' nets gone in. Coach Martin's pucksters were far better in the 2-1 score indicated.

Levy, '62, lofted the puck into the Wesleyan goalie's pads just inside the blue line at 15:55 first period. The Engineers then easily held on to the 1-0 lead as quads came close but could not the nets.

Salbu Scores

7:30 gone in the third period, visitors from Middletown, Conn., knotted the score during a battle in front of the nets. However, MIT first line then turned pressure and kept up successive attacks on the Wesleyan nets. 15, Erik Salbu, '61, slammed the puck from close range to the win. Levy and John Rupert, picked up assists on the clincher.

John Costello, '62, turned in brilliant performances as goaltender for the Techmen in both games, but was especially outstanding against the Polar Bears on Friday. Defensemen John Rollwagen, '62 and Hank Schleinitz, '61, were instrumental in gaining the victory, as were George Lerner, '60, and George Kirk, '60.

Bowdoin was in peak form for their game with MIT, having played three times during vacation. They had already notched thirteen goals when Bob Rein, '62, took a pass from Sid Altman, '60, and slipped it behind the Bowdoin goalie at 16:47 of the last period.

The varsity hockey team will have their hands full in their next contest as they face Amherst, 4-1 victors over Bowdoin, at the Briggs Field Rink tomorrow evening at 7:00.

On Deck

Wednesday	
Varsity Basketball at UNH	8:15 P.M.
Varsity Wrestling with Massachusetts	7:00 P.M.
Varsity Hockey with Amherst	7:00 P.M.
Varsity Swimming at Wesleyan	8:00 P.M.

The varsity swimmers lost their first match of the season to USCGA, 35-51. However, it was not a loss to look down upon as the Coast Guardsmen broke four records while defeating the Engineers.

In the medley relay, USCGA won in 4:09.5 breaking their pool record of 4:11.1.

In the 220, Coast Guard took first and second and in doing so broke their own varsity record.

The 60-yard freestyle was the closest and most exciting event of the meet. Here, Roger Cooke, '62, was touched out at 29.4, after having

broken the MIT record of 29.9.

Bill Bails, '62, won the diving contest.

At this point in the meet, the score was tied. In the 100-yard butterfly, Schmidt and Ide of USCGA took first and second, with the winning time of 0:59.2. This broke an MIT varsity record of 1:07.6.

Lynfors of USCGA won the 100-yard freestyle in 0:54.6 beating John Windle, '60, by 0.1 seconds.

Tom Ising, '61, won the backstroke contest in 2:25.3. Second was Randle of the victors and following him was Charles Rook, '60.

Nelson of CG won the 440-yard freestyle to break another USCGA record. Jed Engler, '62, finished second.

West of MIT easily swam to a win in the breaststroke for a winning time of 2:33.6, 0.3 second over the Beaver record.

In the final event, the freestyle relay, USCGA broke both their own varsity record and that of MIT with a time of 3:40.5.

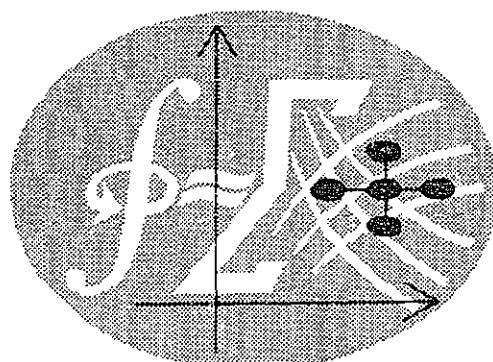
Today's meet with Wesleyan should put the aquanauts back on the winning path, having beaten the Cardinals 54-32 in last year's encounter.



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Parents Weekend Committee Chosen; Meeting Scheduled Late This Week

Fred Jancewicz, '61 and Jerry Grossman, '61, co-chairmen of Parents' Weekend Committee, have announced the formation of the joint faculty-administration-students Committee. From the faculty and administration: Walter Milne, Administrative Assistant; George Wood of the Office of Public Relations; Dean John Rule; Dean William Speer; Dean Robert Holden; Professor Robert Mann; and Miles Cowen of the Department of Physical Plant.

Members of the student committee

are: Bob Nagro, '61; Ernie Rogers, '61; Mike Jablow, '63; Chuck Gluck, '62; Barry Fidelman, '62; Larry Ayres, '61; and Bob Narsace, '62.

This joint committee is expected to meet late in the week. A tentative schedule for the weekend has been drawn up and the co-chairmen have been working out the Weekend budget.

The date for Parents' Weekend has been set for the weekend of April 23rd. Official announcement of this is expected within the next few weeks.

Thinclads Place Third in Triangular; Enter Knights of Columbus Meet, Saturday

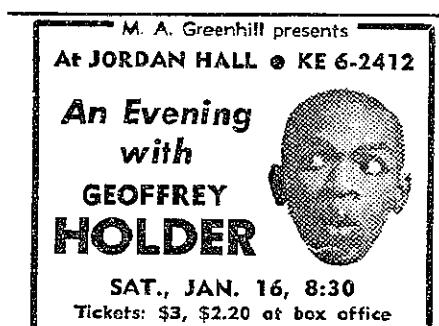
The MIT varsity track team succumbed to both Tufts and Northeastern in its first track meet of the new year last Saturday at the Tufts Cage in Medford. The final tally was Northeastern 57½, Tufts 54½, MIT 28. The frosh squad placed second in their meet, scoring 49 points to 56½ for Northeastern and 34½ for the host aggregation.

Bob Williamson, '60, was high scorer for the thinclads with 7½ points garnered in the 50-yard dash, 45-yard low hurdles, and the mile relay. Bill Nicholson, '60, had seven points in the shot put and 35-pound weight throw, while George Withbroe, '61, was the only Tech winner, taking the 600-yard run in 1:18.1.

Muili Salami was the outstanding performer for the freshmen with a double win in the 50-yard dash and broad jump, copping the latter with a 21 foot 2 inch leap. Steve Hester in the high hurdles and Al Ramo in the

shot put were the other Beaver yearling victors.

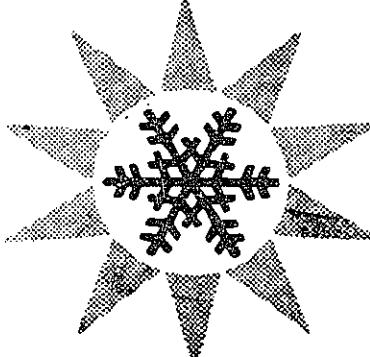
Tomorrow the freshmen travel to Andover to face the always powerful Andover Academy array. Next Saturday both the varsity and freshmen will be represented by relay teams in the Knights of Columbus Meet at Boston Garden. Both teams will then not see action until the first week of next term when they compete in the New England Indoor AAU Championships to be held at Rockwell Cage on February 10.



WTBS Program Schedule

Wednesday	
5:00 P.M.	Caravan
6:00	Clyde Reedy Show
8:30	Campus News
8:50	News
9:00	Classical Music
1:00 A.M.	Sign-off
Thursday	
5:00 P.M.	Caravan
6:00	Jazz
7:00	Bob Nagro Show
8:30	Limelight Review
8:50	News
9:00	Classical Music
1:00 A.M.	Sign-off
Friday	
5:00 P.M.	Caravan
6:00	Jazz
7:00	Fiesta
8:00	Baton Society
8:30	Campus News
8:50	News
9:00	Nite Owl
2:00 A.M.	Sign-off
Saturday	
5:00 P.M.	Sports Roundup
7:00	Jazz
8:50	News
9:00	Nite Owl
2:00 A.M.	Sign-off

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Wednesday, Thursday, Friday February 24, 25, 26

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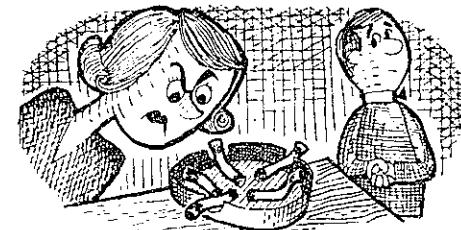
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Dear Dr. Frood:

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(see below)

Dear Dr. Frood: The other day I stopped at my boy friend's house unexpectedly and I found Lucky Strike butts with lipstick on them in the ash tray. What should I do?



Dear Observant: Go ahead and smoke them. A little lipstick won't hurt you.

• • •

Dear Dr. Frood: I am a 267-pound tackle on the football team, cleanup hitter on the baseball team, champion shot-putter and captain of the basketball team. Where can I find a job when I graduate?

Athletically Inclined

Dear Athletically Inclined: Look in the Want Ads under "Boy—strong."

Dear Dr. Frood: I am a math professor. Over half my students are flunking their tests. What can I do about this?

Discouraged

Dear Discouraged: Use Frood's Formula: Divide distance between students' chairs by 2. Since chairs will now be closer together, result should be a 50% improvement in exam grades.

• • •

Dear Dr. Frood: Last Saturday my girl told me she couldn't go out with me because she had a cold. Next day I found out she was out with my roommate. Think I should stay away from her?

Disillusioned



Dear Disillusioned: Better stay away from your roommate. He's probably caught the cold now.



Dear Dr. Frood: I understand that your hobby is cooking. Mine is, too. But my girl friend says any guy who cooks is a sissy. How can I make her stop laughing at me?

Cooky

Dear Cooky: Place a large cauldron of oil over a high flame. When it comes to a boil, add your girl friend.

• • •

Dear Dr. Frood: Should a man marry a girl who makes more money than he does?

Old-Fashioned

Dear Old-Fashioned: If it's at all possible.

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Giant Icicle at Baker House Draws National Press Attention

Following the nationwide publicity given to the Baker House icicle last week, an MIT Icicle Association has been formed, with chapters at other schools. The stated goal of the association, according to icicle grower Robert Ratner, is "bigger and better icicles".

Last week, Ratner, with the help of William Tobin, built a four-story icicle down the wall of Baker House. Other students involved in the project were Stephen Raphael, Michael Bertin, and Lawrence Krakauer. The icicle made news across the country, appearing in the New York Times and the Christian Science Monitor, as well as local newspapers. In addition, the story was carried by UPI and AP wire services, Fox Movietone and Telenews newsreels, John Daly's news broadcast (ABC-TV) and the Huntley-Brinkley Report (NBC-TV).

Other chapters in the recently formed Icicle Association are at Tufts and Northeastern. Although it is rumored that a varsity icicle growing contest with Northeastern may take place, Ratner did not report any definite plans at this time.

Students Celebrating In Customary Ways

The "rites of Spring" were celebrated early on campus this year, as MIT students anticipated Final Exam Period with traditional solemnities.

Last weekend, a detonation described by an East Campus resident as "earth-shattering" was set off between the parallels. Some time later, an eager student heaved a coke bottle through the window of Central Scientific Company, on Ames Street. The glass in the window was broken during the process.

Security Officer Harvey Burstein reported a suicide hoax on the same weekend. About 12:30 A.M. Sunday, the police received a call that a student was hanging himself in a closet in one of the dorms. The police immediately went out and checked every closet in the dormitory, but found no hanging student. They concluded that the call was merely a hoax.

ERRATUM

Contrary to the statement in last Wednesday's issue, the forthcoming Dizzy Gillespie concert will NOT be broadcast over WTBS.

Costello Makes 40 Saves

Icemen Dumped By Amherst 10-2

by G. H. Kaiz

Wednesday evening Amherst came to MIT and left victorious, steamrolling over the Beaver icemen 10-2.

The Cardinal and Grey looked excellent for the first half of the first period. They held the Jeffs in check until three minutes had elapsed, then Bob Church passed out to Bruce Hutchinson who pushed the puck past goalie John Costello, '62. Again the Beavers held their own, and at 5:22, Steve Levy, '62, passed to John Rupert, '62, who put in the first MIT goal. A minute later Amherst got control and Hutchinson scored his second goal of the night.

The play remained fast and furious with the Blue and White being controlled until 13:15 of the first period when Hutchinson scored again, unassisted. During the first period, Fred Estey, Amherst forward, was injured in the fray and lost two teeth; he was taken to Mass. General Hospital.

Amherst took over at the beginning of the second period and demonstrated their prowess on the ice. At 6:05 Church, once again, passed out to Hutchinson who put the puck away for the Amherst fifth; four minutes later Hutchinson unleashed a drive from the blue line that scored number six.

Salbu Scores

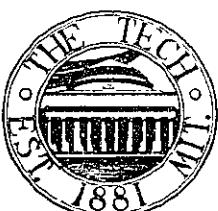
MIT tightened up their defense, but seemed to be unable to get the offense working. Then toward the middle of the last period Rupert assisted Eric Salbu, '61, who scored the other MIT goal.

Hutchinson couldn't be stopped soon enough as he scored again early in the third period. George Lermer, '60, and Sid Altman, '60, saw plenty of action in the last period as the Beavers drew several penalties. Tom Sheahan, '62, drew the fouls as he attempted to stay in the middle of the action.

When play was finished, Costello, who played the entire game had made a total of forty saves. Bruce Hutchinson turned in a fine performance tallying seven goals and gaining one assist.

The Icicle, rapidly melting in the balmy Cambridge atmosphere.

The Tech



NEWSPAPER OF THE UNDERGRADUATES OF THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY

VOL. LXXIX No. 50 CAMBRIDGE, MASSACHUSETTS, FRIDAY, JANUARY 15, 1960

5 Cents

IPC Also in UN Debate

International Week Planned

International Week will be held on March 13th through 20th, according to International Program Committee Chairman Jim deSola, '60. The same types of programs are planned as were held last year, including shows, panel discussions, movies, and speakers.

Among IPC's other current projects are the Mock UN Debate and Crossroads Africa. In this year's debate, to be held February 3rd through 6th, at the University of Montreal, MIT has been chosen to play Indonesia. Since each delegation is required to act as the country they are representing would, our players will follow a policy of "positive neutrality".

Red China to U.N.

Among the questions to be discussed is: "Should Red China be admitted to the UN?", which our Indonesian delegation is sharing with India. Other topics include a discussion of expanding security council membership to 21 nations, and the peaceful uses of outer space.

Five MIT students have been chosen for the "Crossroads Africa" project. Further information will be released after they meet to discuss their plans.

TBP Hears Hartley at Initiation

The Massachusetts Beta Chapter of the Tau Beta Pi Association held its fall term initiation banquet and dance at the Hotel Commander, on Saturday, January 9. Following cocktails and the dinner, President Dave Ludwig presented awards to two of the initiates. Myron Ticketts, Course XIII, was honored for the best essay submitted for the pledge essay contest, and Ray Ambrogi, Course II, won the prize for the most outstanding bent.

The main address was given by Professor E. N. Hartley, of the Humanities Department. Professor Hartley presented some stimulating thoughts on "The First American Engineer." The speech was equally enjoyable for the young engineers and their female guests. The evening was completed as the new initiates, active members, faculty advisors and their guests danced to the music of Ken Hamilton.

Class Rings Distributed

Juniors who have ordered their class rings and who at that time placed a \$5.00 deposit will be able to obtain them soon.

According to L. G. Balfour Company, the manufacturers of the rings, they will be delivered on February 15th, 16th, and 17th, from 9:00 A.M. to 3:00 P.M., in Walker Memorial.

600 copies of the first issue of "Tangent" were sold.

Holyoke Orchestra Here in Joint Concert

MIT will play host to the Mount Holyoke College Orchestra, when it joins the MIT Symphony Orchestra to present a concert at Kresge Auditorium, on Saturday evening, January 16, at 8:30 P.M.

John Corley and David Holden, conductors of the MIT and Holyoke orchestras, have prepared the following program:

Sinfonia Con Tromba, Torelli
Symphony No. 8 (Unfinished),
Schubert
Symphonie Concertante, Mozart
Polka and Fugue From Schwanda,
Weinberger

Dennis Johnson, of MIT and Cynthia Fields, of Holyoke, will be violin and viola soloists, respectively in the Mozart piece.

James Rattenberry will be trumpet soloist in the Torelli piece.

Admission to the concert is free.

Meets Sr. House for Championship

Baker Reaches IM B-Ball Finals

Baker House's ability from the free-throw line told the story as the Big Red downed Sigma Chi 43-33 in Wednesday's evening's intramural semi-final basketball game. The victory gives Baker House the right to meet Senior House for the Championship on Sunday. Senior House defeated Grad House "A" 37-36 in the other semi-final encounter.

Baker House Takes Quick Lead

Baker House took the opening tip-off and quickly converted it for two points on a driving lay-up by guard Gary Brinker, '62. This lead was short lived however, as the losers' Bob White, '60, hit on a long one-handed jump shot. This was followed by a quick jump shot by Baker's Dick Bratt, '60, and the victors gained a lead they held for almost the entire game. The shot by Bratt seemed to open the way for the Big Red as they scored eleven more points while Sigma Chi could muster only four. The score at the end of the first period stood Baker 15 — Sigma Chi 6.

The second quarter was a reverse of the first stanza as Sigma Chi, led by the brilliant shooting of White, who scored twelve points, managed to rack up ten points while holding the victors to six. The half time score read 21-16 in favor of Baker.

The third quarter produced most of the evening's excitement as a "never-say-die" Sigma Chi squad led by the shooting of White, Julian Ayres, '63, and Jim Long, '60, and the rebounding of Ralph Beals managed to tie the

(Continued on page 4)

Slenczynska to Give Piano Recital

Pianist Ruth Slenczynska will give her first performance in the Boston area, at Kresge Auditorium, on Friday evening, February 19, at 8:30.

Tickets for the concert, which is sponsored by the MIT Baton Society, will go on sale February 1. Phone reservations may then be made by calling Ext. 2902. Ticket prices are \$1.00, \$1.75 and \$2.50, all reserved.

Miss Slenczynska, a child prodigy in the 1930's, reappeared on the concert scene in 1951 and since then has re-established herself as a leading keyboard artist. Her U.S. concert tours during the past two seasons have brought acclaim from the critics. On one of those concert appearances she played in San Francisco with Arthur Fiedler. On the occasion of the twenty-fifth anniversary of her concert debut there, she played a New York Town Hall concert in November 1958, which caused critics to credit her with "fine form, speed, accuracy and creative imagination as an interpreter."

Thirty-four year old Miss Slenczynska gave her first public recital at the age of four, and studied later with Mischa Elman, Alfred Cortot, Egon Petri, Artur Schnabel and Sergei Rachmaninoff. Pushed into the spotlight early by her father, she quit the concert stage at 14 at the beginning of World War II, but continued studying until she made her comeback in the early 1950's. Today there are six Decca recordings of her performances of the Chopin Etudes and Scherzi, and of pieces by Bach, Rachmaninoff, Schumann, Bartok and others.

Women on Campus

With the intensive long range planning taking place at the Institute currently, we were disturbed to hear, at a press conference, that virtually none of it is going into the problem of the woman at MIT.

Even though the school has harbored female degree candidates for the better part of its existence, the administration is noticeably lacking in concern for the problems which the MIT coed now faces, and has, perhaps, been facing for a number of years. The admissions office is presented with the problem of accepting a maximum of seventeen girls, not counting those who are commuters, because only that number can live in the freshman dorm on Bay State road. Current trends, perhaps motivated by Russian women, point to an increase in the number of girls interested in scientific studies, and even now a number who would be qualified by the male standard must be turned down for lack of beds.

While it is true that the female academic performance has been of a somewhat lower level than their counterparts, it is quite probable that the distorted girl-man ratio presents a psychological and social problem to the incoming woman which seriously hampers her studies. The higher-than-male transfer rate in recent years adds validity to this point.

On the brighter side of the ledger, the girls were not left out of the Dupont facilities, and an athletic program has even been set up for them.

But what bothers us is the lack of a long range, or even short range, goals for the women student program. On the academic level not much can be done; the women should come here for the same education as the man. But on the social and residential side of the ledger many improvements are needed; an administrative or faculty committee has not even been formed to study the problems. MIT must define its goals in this field. If it is going to stay in tune with the changing times, then it must point its way toward a position where sex will not seriously hamper the chances of any qualified applicant receiving the benefit of, and benefiting the world by, the MIT education.

ivory tower

Dean Brown and ten million dollars have made inspiring and imaginative plans for improving the engineering education at MIT. The plan is to emphasize the basics of engineering to make us better engineers able to contribute more to our field. Yet we must say that there is another basic to consider. First and foremost we are men, not engineers. We would also like to hear of our education as men.

Does not MIT require eight humanities courses for graduation? Indeed it does, but there is more in the education of men than courses. In providing its students with one of the finest engineering educations in the world, in allowing us to acquire its highly regarded diploma, MIT takes from its students probably the most valuable educational tool he has. MIT consumes most of the time of its students.

School work does take time and no student begrudges most of these hours. But when the pressure of school requires all the students time, when the demands of courses make students feel guilty for taking a night off, we can begin to question how well this time is spent.

When school requires so much that we cannot spend time thinking, something is wrong. The problem set due tomorrow prevents us from thinking why we are studying. Much of the pageant of love is lost to transistors. Plato, Kant and Sartre are replaced by integrals. Anyone who has spent a vacation at MIT without the pressure soon realizes a new dimension to his education in the bull session, or the beer parlor, or the museum, or in the arms of some young woman without thinking about Monday's quiz. Perhaps even more important to our education is that only during vacations or during stolen time can we as students explore without the help of a problem sheet the ramifications of $F = MA$ and such. Strange as it may be, MIT prevents us from exploring much of the subject matter of MIT. Dean Brown says that he hopes to expose the undergraduates to research and creation. Where does he expect to get the time for them to investigate problems and carry out time-consuming research?

MIT provides its engineers with an excellent engineering education. This we appreciate and demand. The excellence is good. The discipline we need. Yet as people in the transition period between adolescence and manhood, time to explore our own humanity would be well spent. Christmas Convocation this year is an excellent example of the effect of the academic pressure. At a time of joy and good will, a time to smile and laugh, the Christmas Convocation audience was dull, humorless and unresponsive.

The next time the faculty decides to add a requirement to the curriculum to make us better engineers or scientists, let them ask if this will make us better men. When the faculty discusses the proposed changes in the education let them ask what kind of men MIT is producing.

Carl Swanson, '60

review

Motel

A small motel outside Washington, D. C., run by a good-hearted Joe named Wally (Myron McCormick), with Cabin 1 occupied by an important personage of the Justice Department (Siobhan McKenna) and a young lawyer (not her husband), Cabin 3 occupied by a nineteen-year-old-girl there to have an abortion. . . . If a play says nothing, it should at least have the qualities of good entertainment, none of which is to be found in *Motel*.

Siobhan McKenna, with a well-written play, usually puts on a demonstration of good acting, but with such a weak and forced plot little could be done. On the other hand, amid such mediocrity Myron McCormick should be cited for his outstanding character portrayal in which we saw Wally, the motel-owner, instead of McCormick, the actor.

After the play we had a snack at the Mayflower Donut Shop and . . . Oh, by the way, if you haven't guessed it, things turn out just fine for all the characters involved.

Gerald J. Hornik, '61

Literary effort post mortem

In a week crowded with the issuing of most of the MIT magazines, a new one, "Tangent" made its first appearance.

The life of literary magazines in the Institute is characterized by an initial enthusiasm from the staff, a consequent effort from scattered writers and a general apathy from the students, after the publication. This has been so in the past and it seems to have happened again with *Tangent*.

There are several reasons for such failures and the guilt for it is shared by the students as individuals and the magazine's staff as a whole.

Time has gone when it was enough to say that MIT is essentially a scientific school: the Humanities Department has been making successful efforts to improve our standing in such matters and very soon a course XXI student will deserve the same kind of admiring look as an engineering major. But if the Department as a whole is increasing the number of good courses offered to Juniors and Seniors, the Freshman curriculum is still handled in a naive fashion. Instead of developing the capacity of each individual student in the field of creative writing, it forces him to analyze and dissect philosophers, to follow and understand a war he never heard of before, to review and criticize novelists, poets and playwrights, all of it in a year, spreading his interest, diversifying it. At this stage of an education, in the first year of a college career, it is almost necessary to begin a distinction between those who have and those who have not had previous experience in literature, philosophy or drama. Rather than force the student who has a good potential for creative writing to follow a class which tends to disperse this slight interest, it would be a good policy to allow for concessions; this could be done by dividing the freshman humanities program in different classes, and permit the student to choose among several fields of interest, where he wouldn't be tied by boredom, disinterest or carelessness.

As the student progresses in his way to a degree, he loses this original interest and magazines such as "Tangent" have a hard time being sold. ("I haven't got time for that kind of stuff".)

On the other hand the lack of publicity and, in a way, of confidence in their magazine has created an intolerable barrier for "Tangent's" staff: the cover of this past number failed to explain what it was all about; many people still don't know it was on sale; and, most aggravating of all, very few people either knew or were asked to write something for it.

It is not the purpose of this article to criticize anybody because unfortunately there isn't very much to be criticized. The apathy of the student body to a serious effort of creative writing can only be fought by an obstinate publication of *Tangent*.

Jean Pierre Frankenhuis, '61

The Tech

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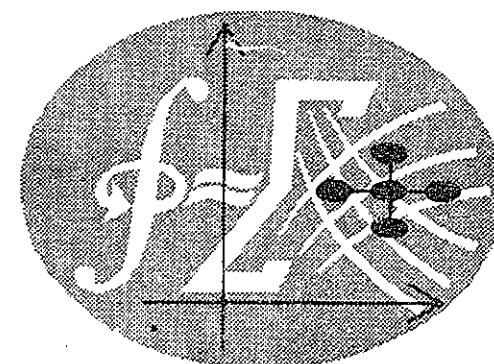
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Captain Gets Lone Pin

Wrestlers

The varsity wrestling team gained its fourth victory in five outings Wednesday with a 20-6 conquest of the University of Massachusetts at Rockwell Cage.

Captain Don Weaver, '60, recorded the only pin of the meet as he matted his 130 lb. class opponent in 1:13. Two MIT grapplers outpointed their opponents to remain undefeated for the year.

Sullivan, Bulfer Triumph

John Sullivan, '61, competing in the 147 lb. division, won 6-1 while Andy Bulfer, '61, took a 5-2 decision in the 137 lb. section.

The meet was the last of the term for the Engineers, who have six engagements charted for the second half of the year.

Freshmen Victorious

Although they had to forfeit one weight class, the Beaver freshmen downed Roxbury Latin, 25-15, Wednesday, as four matmen kept their winning streaks intact.

John Fulton, wrestling in the unlimited class, canvased his man at 3:12 for the fastest pin of the day. Terry Chatwin, 147, dropped his opponent at 3:31.

Other pins went to Mike Williams, 177, in 3:49 and Jim Evans, 133, at 4:09.

Before the Christmas vacation the freshmen trounced Harvard, 23-9.

League Play in IM Hockey Nears End

Defending champion Grad House clung to its slim lead in League I this week as the intramural hockey season moved into its final few days. Two teams will be chosen from each of the five leagues to compete in the single

elimination playoffs which will begin February 14, according to Leo Gagan, '61, IM manager.

Although the season officially ends Tuesday, a number of games will have to be made up early next term before the playoffs can begin.

Burton House and Phi Beta Epsilon are staging the hottest battle of the season in League II, where both have gained three wins with no defeats. The leaders in Leagues IV and V, Phi Kappa Sigma and Non-Resident Students, respectively, both have two victories with no losses.

"Home is the place where, when you have to go there, they have to take you in." So said Robert Frost, and if you have to go to Cincinnati, Ohio, between terms, contact Ken Reinschmidt, Wood 111, EC, X2876. Leaving Tuesday, January 26 or Wednesday, January 27.

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Baker and Senior House Triumph

(Continued from page 1)

score at 27 all as the horn sounded ending the quarter's activity.

Baker House however, was not to be outdone. With Brinker directing the attack, Bradt, Jerry Hallee, '63, and Jerry Kaufman, '62, went on a scoring spree. Bradt, who topped all

On Deck

Today	Varsity basketball at Bates	6:30 P.M.
Saturday	Rifle with St. Michaels	6:30 P.M.
	Varsity basketball at Bowdoin	
	Freshman basketball at Exeter	
	Fencing with Brandeis	2:00 P.M.
	Hockey with W.P.I.	7:00 P.M.
	Freshman hockey at Gov. Dummer	
	Pistol with Coast Guard	2:00 P.M.
	Squash with Toronto	2:00 P.M.
	Freshman squash with Exeter	2:30 P.M.
	Varsity swimming at W.P.I.	
	Freshman swimming with Exeter	3:00 P.M.
	Freshman wrestling with Andover	2:30 P.M.
	Indoor track — K of C meet at Boston Garden	

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6:00	Jazz
7:00	Fiesta
8:00	Baton Society
8:30	News
9:00-2:00	Nite Owl
Saturday	
5:00 P.M.	Jazz
7:00	Show Music
8:30	News
9:00-2:00	Nite Owl
Sunday	
4:00 P.M.	Sunday Serenade
7:00	Folk Music
8:00	Jazz
8:30	News
9:00-1:00	Classical Music
Monday	
5:00 P.M.	Caravan
6:00	Jazz
7:00	Bob Nagro Show
8:00	Potpourri
8:30	Campus News
8:50	News
9:00-1:00	Classical Music



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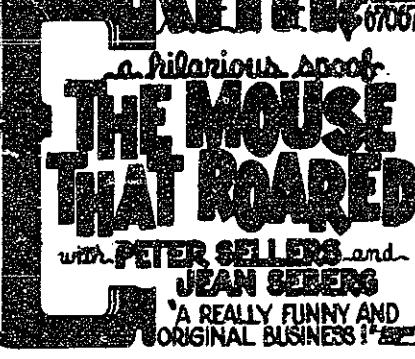
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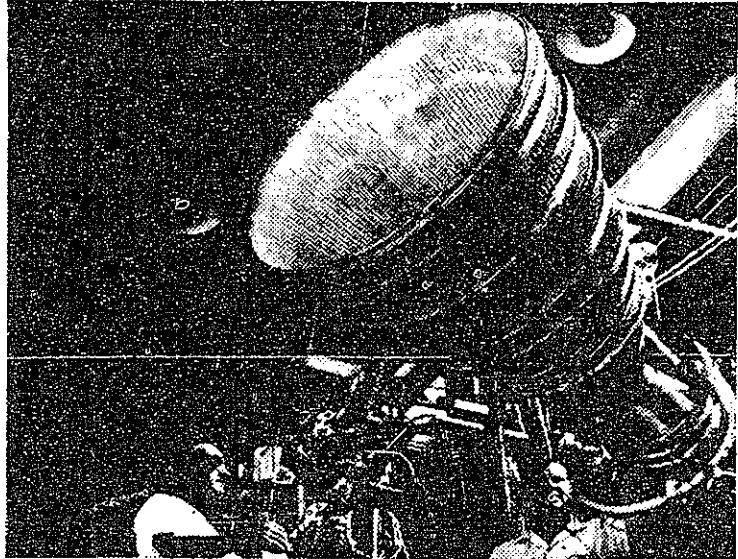
Included in a wide range of engineering activities open to technically trained graduates at all levels are these four basic fields:

ANALYTICAL ENGINEERING Men engaged in this activity are concerned with fundamental investigations in the fields of science or engineering related to the conception of new products. They carry out detailed analyses of advanced flight and space systems and interpret results in terms of practical design applications. They provide basic information which is essential in determining the types of systems that have development potential.

DESIGN ENGINEERING The prime requisite here is an active interest in the application of aerodynamics, thermodynamics, stress analysis, and principles of machine design to the creation of new flight propulsion systems. Men engaged in this activity at P&WA establish the specific performance and structural requirements of the new product and design it as a complete working mechanism.

EXPERIMENTAL ENGINEERING Here men supervise and coordinate fabrication, assembly and laboratory testing of experimental apparatus, system components, and development engines. They devise test rigs and laboratory setups, specify instrumentation and direct execution of the actual test programs. Responsibility in this phase of the development program also includes analysis of test data, reporting of results and recommendations for future effort.

MATERIALS ENGINEERING Men active in this field at P&WA investigate metals, alloys and other materials under various environmental conditions to determine their usefulness as applied to advanced flight propulsion systems. They devise material testing methods and design special test equipment. They are also responsible for the determination of new fabrication techniques and causes of failures or manufacturing difficulties.



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